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### 1 (Almost) Tight bounds and existence theorems for single-commodity confluent flows

Ads by



Jiangzhao Chen, Robert D. Kleinberg, László Lovász, Rajmohan Rajaraman, Ravi Sundaram, Adrian Vetta  
 July 2007 Journal of the ACM (JACM), Volume 54 Issue 4  
 Publisher: ACM

 Full text available: pdf(473.06 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 334, Citation Count: 0

A flow of a commodity is said to be confluent if at any node all the flow of the commodity leaves along a single edge. In this article, we study single-commodity confluent flow problems, where we need to route given node demands to a single destination ...

Keywords: Approximation algorithms, confluent flow, network flow, routing, tight bounds

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### 2 Gene classification: issues and challenges for relational learning



Claudia Perlich, Srujana Merugu

August 2005 MRDM '05: Proceedings of the 4th international workshop on Multi-relational mining

Publisher: ACM

 Full text available: pdf(216.66 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

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We present ongoing research that applies statistical relational learning techniques, in particular, propositionalization, to the challenging and interesting real-world domain of functional gene classification of the Yeast genome *Sachharomyces Cerevisiae*. ...

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### 3 Survey of graph database models



Renzo Angles, Claudio Gutierrez

February 2008 ACM Computing Surveys (CSUR), Volume 40 Issue 1

Publisher: ACM

 Full text available: pdf(1.59 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

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Graph database models can be defined as those in which data structures for the schema and instances are modeled as graphs or generalizations of them, and data manipulation is expressed by graph-oriented operations and type constructors. These models ...

**Keywords:** Database systems, database models, graph database models, graph databases, graph integrity constraints, graph query languages

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